## IN THE CLAIMS

- 1. (currently amended) A composition for making an ionomeric cement, comprising at least one copolymer comprising at least two different carboxylic acid-containing monomers, wherein said copolymer has added thereon a bifunctional monomer having pendent polymerizable functional groups, and a comonomer containing one or more polymerizable functional groups reactive with said polymerizable functional groups on said bifunctional monomer, wherein said comonomer, at least one of said carboxylic acid containing monomers, or both, comprises an amino acid.
- 2. (original) The composition of claim 1 wherein one of said carboxylic acid-containing monomers comprises acrylic acid (AA).
- 3. (original) The composition of claim 1 wherein one of said carboxylic acid-containing monomers comprises itaconic acid (IA).
- two monomers comprise acrylic acid and itaconic acid.
- 5. (original) The composition of claim 1 wherein said copolymer comprises three different carboxylic acid-containing monomers, one of which comprises an amino acid.
- 6. (original) The composition of claim 5 wherein said amino acid is an acryloyl amino acid or a methacryloyl amino acid.
- 7. (original) The composition of claim 6 wherein said amino acid is acryloyl amino acid selected from the group consisting of acryloyl beta-alanine (ABA), acryloyl aspartic acid (AASPS), acryloyl glycine (AG), acryloyl glutamic acid (AGA), and acryloyl 6-aminocaproic acid (A6ACA).
- 8. (original) The composition of claim 6 wherein said amino acid is a methacryloyl amino acid selected from the group consisting of methacryloyl beta-alanine (MBA), methacryloyl

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glycine (MG), methacryloyl aspartic acid (MASPA), methacryloyl 6-aminocaproic acid (M6ACA) and methacryloyl methionine (MMET).

- The composition of claim 1 wherein said 9. (original) copolymer comprises Poly(AA-IA-AGA) or Poly(AA-IA-MGA).
- The composition of claim 1 wherein said 10. (original) copolymer comprises Poly(AA-IA-AG) or Poly(AA-IA-MG).
- The composition of claim 1 wherein 11. (original) said copolymer comprises Poly(AA-IA-ABA) or Poly(AA-IA-MBA).
- said The composition of claim 1 (original) 12. copolymer comprises Poly(AA-IA-A6ACA) or Poly(AA-IA-M6ACA).
- (currently amended) The composition of claim 1 wherein polymerizable functional groups on pendent bifunctional monomer comprise ethylenically unsaturated groups.
- (currently amended) The composition 13 wherein said bifunctional monomer is copolymer has glycidyl methacrylate (GM) groups which is grafted thereon onto said copolymer.
- claims 15. (currently amended) The composition of 13 is <del>copolymer has 2-</del> bifunctional monomer said isocyanatoethylmethacrylate (IEM) groups which is grafted thereon onto said copolymer.
- 16. (currently amended) The composition of claim 1 wherein polymerizable functional groups on said pendent bifunctional monomer comprise epoxy groups.
- The composition of claim 1 wherein said (original) comonomer comprises an acryloyl amino acid or a methacryloyl amino acid.
- The composition of claim 1 wherein said (original) 18. comonomer comprises acryloyl beta-alanine.
- The composition of claim 1 wherein said (original) 19. comonomer comprises 2-hydroxyethyl methacrylate (HEMA).

- The composition of claim 1 wherein both (original) 20. one of said carboxylic-acid containing monomers and said comonomer comprise an amino acid.
- The composition of claim 1 comprising 21. (original) first and second copolymers, each of which contains an amino acid-containing monomer, wherein the amino acid in each of said copolymers is different.
- The composition of claim 21 wherein (original) combinations of said first and second copolymers are Poly(AA-IA-MGA) / Poly (AA-IA-M6ACA), Poly(AA-IA-MGA)/Poly(AA-IA-MG) Poly (AA-IA-AASPA) / Poly (AA-IA-MG).
- composition of claim 1 (original) The comprising polyacrylic acid.
- ionomeric cement comprising the (original) An 24. composition of claim 1, a reactive filler and water.
- of claim 24 further cement 25. (original) The comprising a polymerization initiator.
- The cement of claim 25 wherein said (original) 26. initiator comprises a photo-initiator.
- The cement of claim 25 wherein said 27. (original) initiator comprises a reducing agent and an oxidizing agent.
- The cement of claim 27 wherein said (original) 28. reducing agent comprises ascorbic acid.
- The cement of claim 27 wherein said (original) reducing agent is in encapsulated form.
- 24 further cement of claim The (original) 30. comprising a polymerization inhibitor.
- The cement of claim 30 wherein said 31. (original) inhibitor is butylated hydroxytoluene.
- 24 further cement of claim 32. (original) The comprising a modifying agent.
- The cement of claim 32 wherein said 33. (original) modifying agent comprises tartaric acid.

- 34. (original) The cement of claim 24 further comprising polyacrylic acid.
- 35. (currently amended) A kit for preparing an ionomericcement composition, comprising: a first package containing at least one copolymer comprising at least two different carboxylic acid-containing monomers, wherein said copolymer has thereon a bifunctional monomer having pendent polymerizable and a comonomer containing one or functional groups, polymerizable functional groups and that is reactive with said polymerizable functional group on said bifunctional monomer, wherein said comonomer, at least one of said carboxylic acidcontaining monomers, or both, comprises an amino acid.
- The kit of claim 35 wherein said first (original) package further comprises water, and wherein said kit further comprises a second package comprising a reactive filler.
- The kit of claim 36 wherein said second 37. (original) package further comprises a reducing agent.
- The kit of claim 35 wherein said first 38. (original) package further comprises a reactive filler and wherein said kit further comprises a second package comprising water.
- kit of claim 35 (original) The wherein copolymer and said comonomer are present in lyophilized form.
- (original) The kit of claim 35 further comprising second package and wherein one of said packages comprises a reducing agent and the other of said packages further comprises an oxidizing agent.
- (currently amended) A polymerization system comprising copolymer comprising at least two different least one at carboxylic acid-containing monomers, one of said monomers being amino acid, wherein said copolymer has added thereon a bifunctional monomer having pendent polymerizable functional groups, and a comonomer containing one or more functional groups

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reactive with said polymerizable functional groups on said bifunctional monomer.

- 42. (currently amended) A polymerization system comprising at least one copolymer comprising at least two different carboxylic acid-containing monomers, wherein said copolymer has added thereon a bifunctional monomer having pendent polymerizable functional groups, and an amino acid comonomer having polymerizable functional groups reactive with said polymerizable functional groups on said bifunctional monomer.
- 43. (new) The composition of claim 1, wherein said copolymer comprises said comonomer.